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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/792,257	03/02/2004	Aaron J. Steyskal	884.B85US1	4001
7590 11/03/2004			EXAMINER	
Schwegman, Lundberg, Woessner & Kluth, P.A. P.O. Box 2938 Minneapolis, MN 55402			HA, NGUYEN T	
			ART UNIT	PAPER NUMBER
			2831	

DATE MAILED: 11/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/792,257

Applicant(s)

STEYSKAL ET AL.

Examiner

Nguyen T Ha

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) 6-17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-5 and 18-19 and 21 is/are rejected.
- 7) ☒ Claim(s) 2 and 20 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>0304</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 1-5 and 18-21 in the reply filed on 9/28/2004 is acknowledged.

Claim Objections

2. Claim 20 is objected to because of the following informalities:

Claim 20, line 2, "the a number of plate" should changed to - - the number of plate- -.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by DuPre' et al. (US 5,880,925).

Regarding claim 1, DuPre' et al. disclose a capacitor (figures 4-5) comprising:

- a capacitor package/capacitor body (42, column 5, line 18);
- a number of plate assemblies (58 & 60) housed within the capacitor package (42), each plate assembly having a first polarity connection (44, column 5, line 19) and second polarity connections (46, column 5, line 20);
and

- a plurality of terminals (44, 46), wherein multiple first polarity connections (44) are coupled to a single first polarity terminal and corresponding multiple second polarity connections (46) are coupled to multiple second polarity terminals (figure 4).

Regarding claim 3, DuPre' et al. disclose the plurality of terminals including at least one surface mount terminal (column 5, lines 34-41).

Regarding claim 5, DuPre' et al. disclose the capacitor package including a rectangular volume (column 2, lines 17-26).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over DuPre' et al. (US 5,880,925).

Regarding claim 4, DuPre' et al. disclose all the claimed limitations discussed above with respect to claim 1, except for the first polarity is an anode and the second polarity is a cathode. It would have been obvious to one having ordinary skill in the art at the time invention was made to have a first polarity is an anode and a second polarity is a cathode, since it was known in the art that the capacitor should have the positive and negative sides.

7. Claims 18 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuroda et al. (US 6,351,369) in view of DuPre' et al. (US 5,880,925).

Regarding claim 18, Kuroda et al. prior art disclose an information handling system (figure 8), comprising:

- a motherboard (not shown);
- a voltage regulation circuit (2) coupled to the motherboard, including a capacitor (5) that includes:
- a processor chip (3);
- a dynamic random access memory (4); and
- a bus (not shown) coupled between processor chip and the dynamic random access memory (figure 8).

Kuroda et al. lack : a capacitor comprising :

- a capacitor package;

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- a number of plate assemblies housed within the capacitor package, each plate assembly having a first and a second polarity connections; and
- a plurality of terminals, wherein multiple first polarity connections are coupled to a single first polarity terminal and corresponding multiple second polarity connections are coupled to multiple second polarity terminals.

DuPre' et al. disclose a capacitor (figures 4-5) comprising:

- a capacitor package/capacitor body (42, column 5, line 18);
- a number of plate assemblies (58 & 60) housed within the capacitor package (42), each plate assembly having a first polarity connection (44, column 5, line 19) and second polarity connections (46, column 5, line 20); and
- a plurality of terminals (44, 46), wherein multiple first polarity connections (44) are coupled to a single first polarity terminal and corresponding multiple second polarity connections (46) are coupled to multiple second polarity terminals (figure 4).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the DuPre' et al. capacitor into Kuroda et al. system in order to provide an improvement surface mount compatible decoupling capacitor for use in the electronic system.

Regarding claim 21, the modified of Kuroda et al. show all the claimed limitations with respect to claim 18 above. DuPre' et al. further teach the plurality of terminals includes multiple first polarity terminals (figure 4).

8. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuroda et al. (US 6,351,369) in view of DuPre' et al. (US 5,880,925) as applied in claim 18 above, and further in view of Palanduz et al. (US 6,795,296).

Regarding claim 19, the teaching of Kuroda et al. in view of DuPre' includes all the claimed limitations with respect to claim 18 above, except for the dynamic random access memory includes a synchronous dynamic random access memory.

Palanduz et al. disclose a memory includes a synchronous dynamic random access memory (SDRAM) (column 2, lines 50-55).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the SDRAM memory of Palanduz et al. into Kuroda in view of DuPre' in order to improve the speed for the system.

Allowable Subject Matter

9. Claims 2 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

With respect to claim 2, the prior art alone or in combination does not teach the limitations of a capacitor comprising a number of plate assemblies includes a number of fan-like plate assembly.

With respect to claim 20, the prior art alone or in combination does not teach the limitation of a capacitor package includes a cylindrical volume and a number of plate assemblies include fan-like plate assembly.

Citation Relevant of Prior Art

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nitoh et al. (US 6,421,227) disclose the unfolded fan like shape; however, there is no teaching for the motivation to combine.

Conclusion

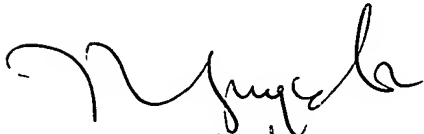
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen T Ha whose telephone number is 571-272-1974. The examiner can normally be reached on Monday-Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext. 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic
Business Center (EBC) at 866-217-9197 (toll-free).


11/1/04

Nguyen T. Ha
November 1, 2004